

originally submitted. Said second set of Figs. 1, 10-12 is being separately filed before the Official Draftsperson.

In the Specification:

At page 19, line 21, delete " $(|i_a - i_b| - |i_c - i_d|)$ " and substitute therefore $-(|i_a - i_b| - |i_c - i_d|)$. At page 19, line 25, delete " $(|i_a - i_b| - |i_c - i_d|)$ " and substitute therefore $-(|i_a - i_b| + |i_c - i_d|)$. An amended copy showing strike-outs and add-ins of twice page 19 and a separate clean copy of twice page 19 are attached.

In the Claims:

Amend the claims 1-24 and add new claims 25-26 as follows.

1. (Twice-Amended) An apparatus for detecting the phase and amplitude of electromagnetic waves, ~~preferably~~ in the optical and in the near infrared and ultraviolet ranges, comprising at least two modulation photogates (1, 2) which are sensitive to the electromagnetic waves (photosensitive), and accumulation gates (4, 5) which are associated with the modulation photogates, said accumulation gates (4, 5) being neither photosensitive nor shaded, and electrical connections for the modulation photogates (1, 2) and the accumulation gates (4, 5), so that the latter can be connected to a reading-out device, and the former can be connected to a modulating device which increases or reduces the potential of the modulation photogates (1, 2) relative to each other and relative to [the] ~~a preferably constant~~ potential of the accumulation gates (4, 5) corresponding to a desired modulation function, characterised in that there are provided a plurality of modulation photogates (1, 2) and accumulation gates (4, 5) ~~in the form~~ being formed of long narrow parallel strips which group-wise form a PMD-pixel, wherein the accumulation gates are ~~in the form of~~ reading-out diodes with ~~preferably in each case the cathode~~ of each diode being a ~~as the~~ reading-out electrode.